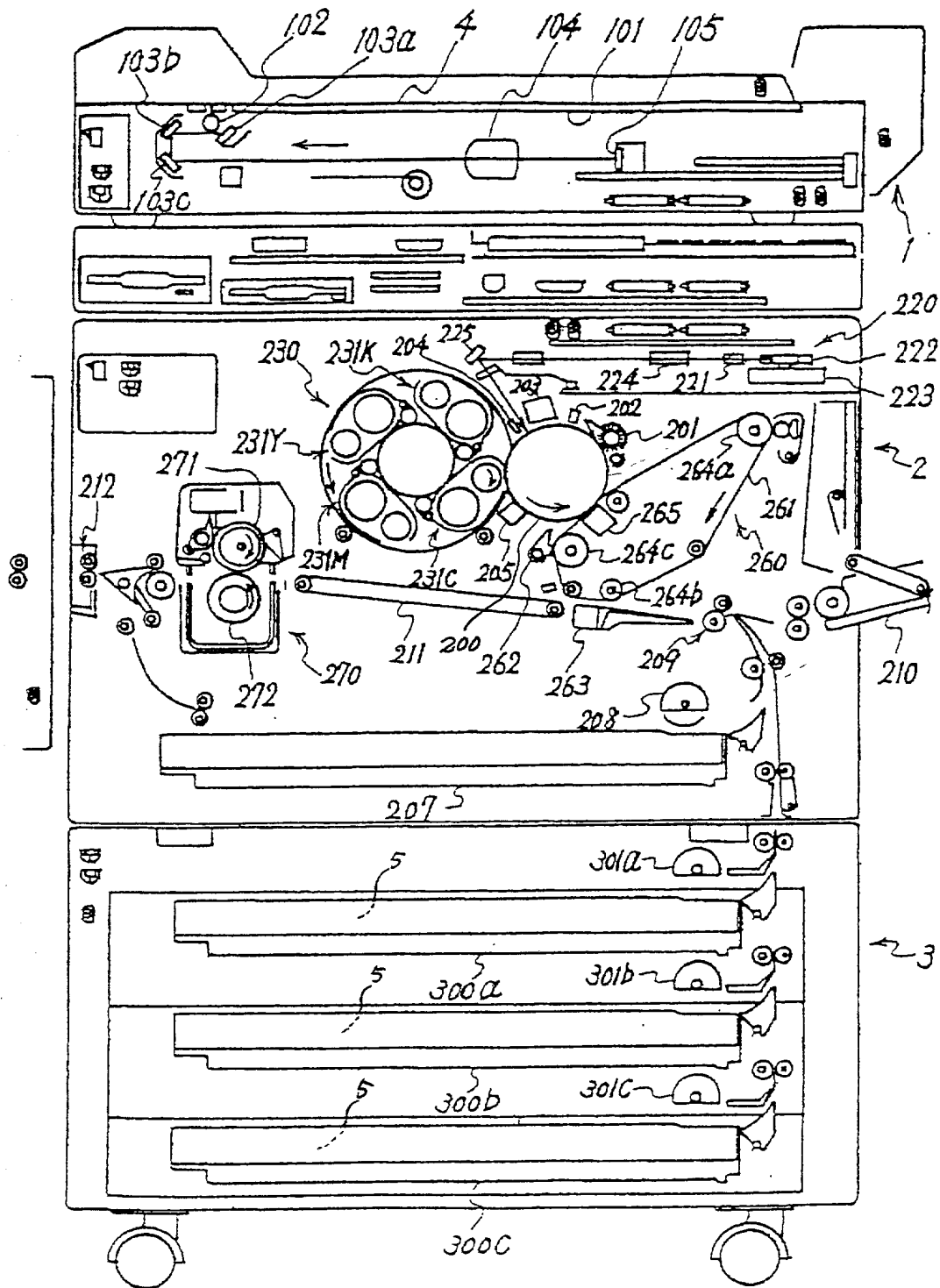


A-01028 - FIGS. 1-17

FIG. 1



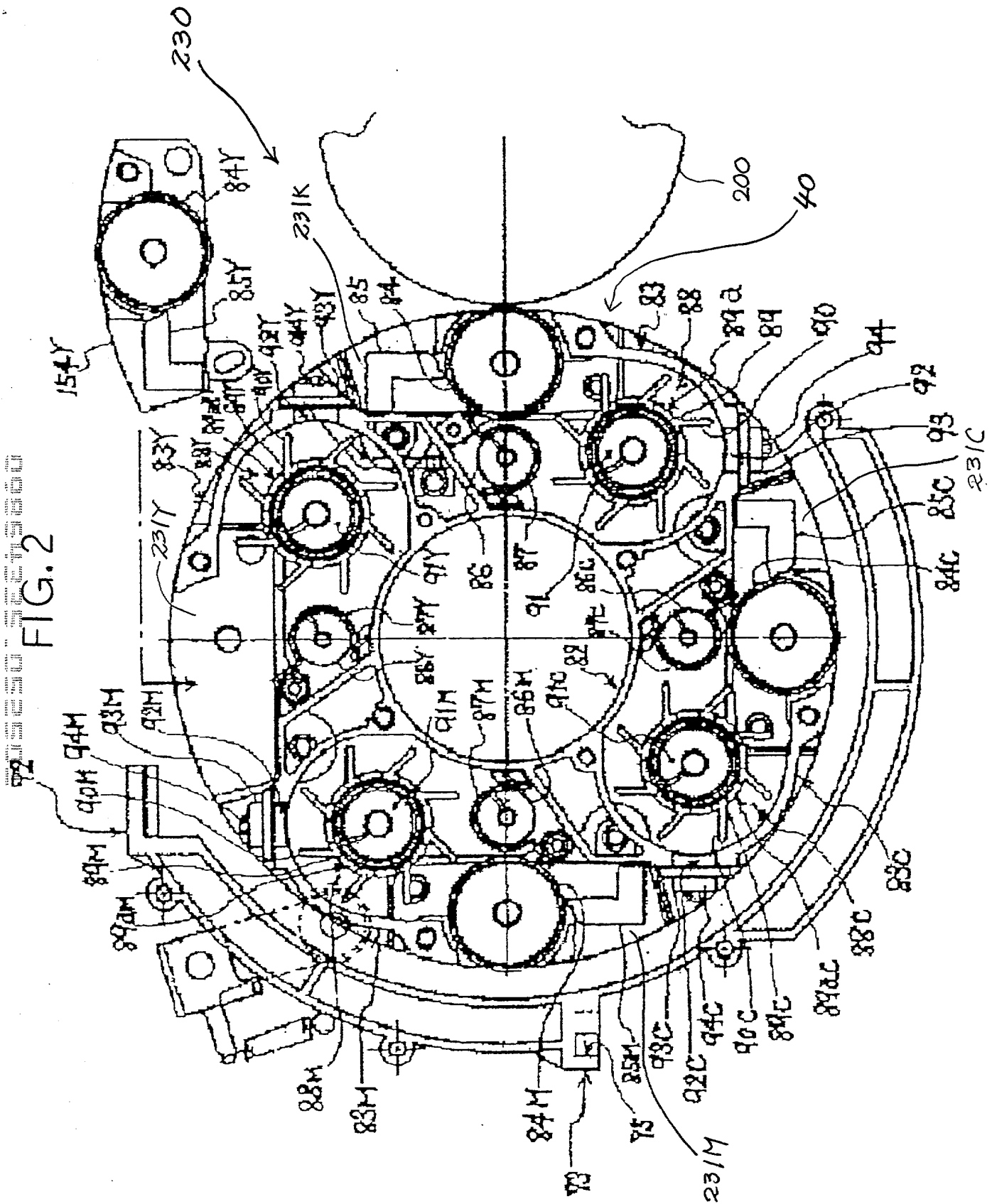


FIG. 3

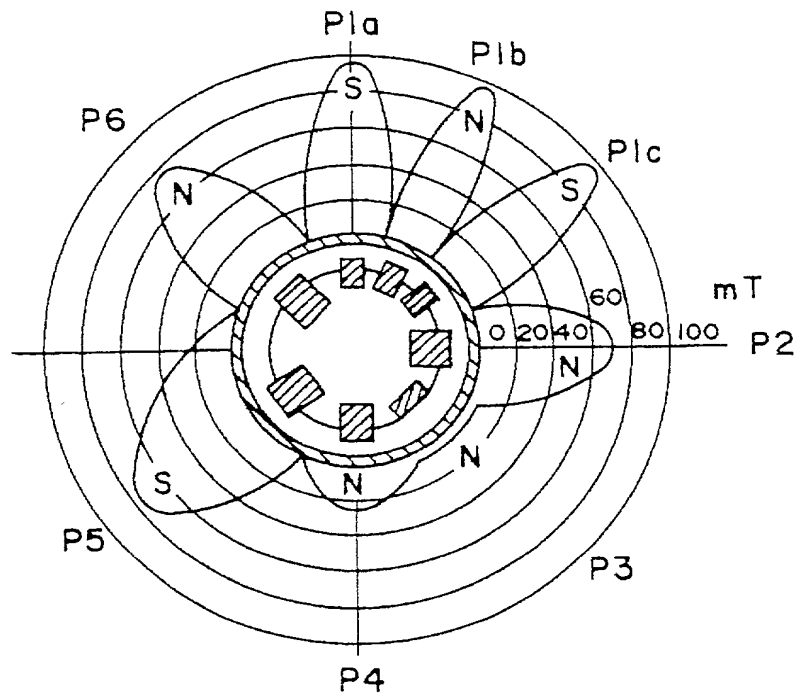
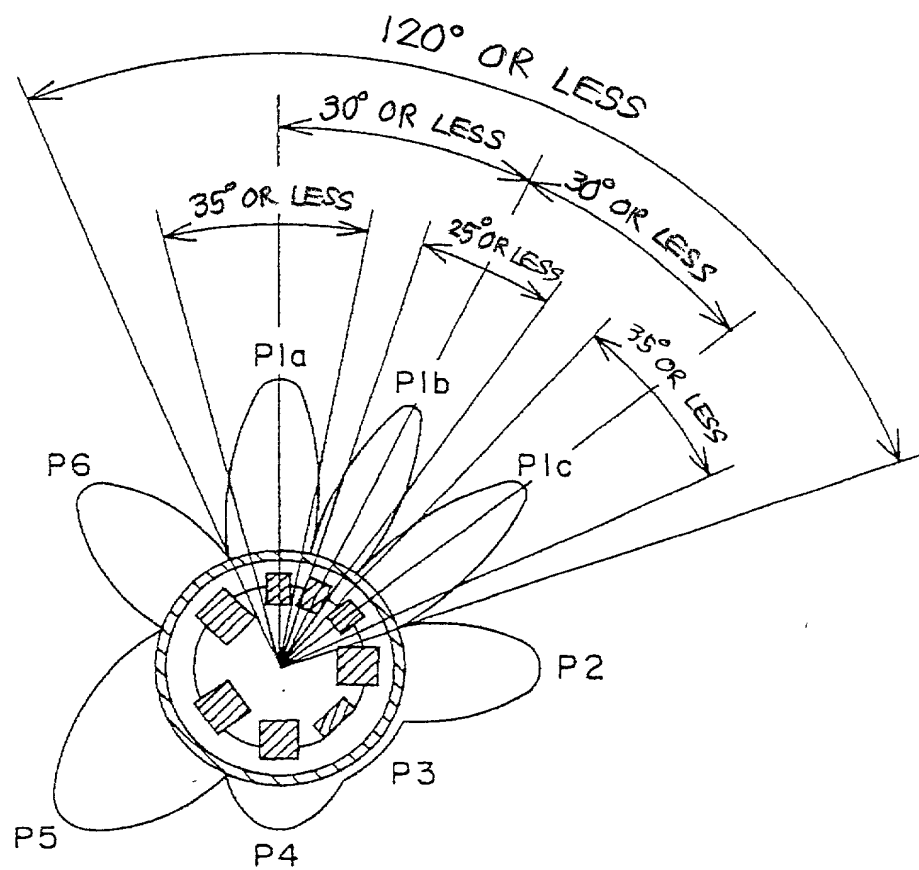


FIG. 4



七

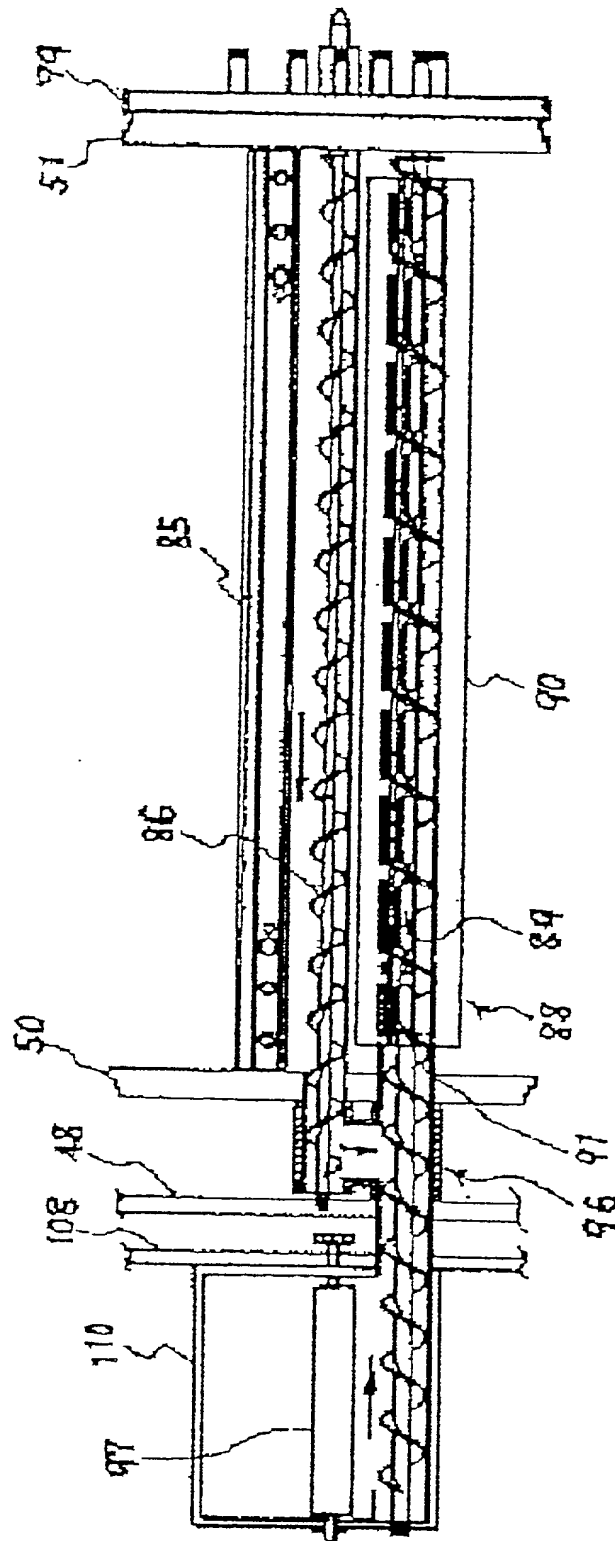


FIG. 6A

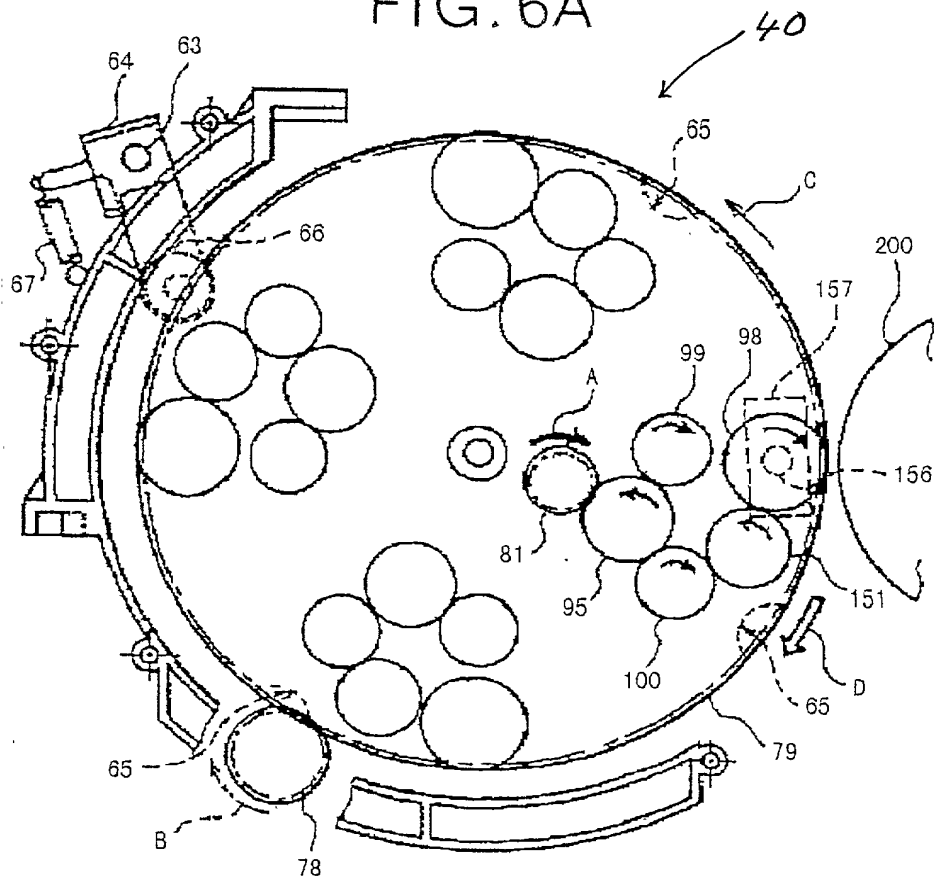


FIG. 6B

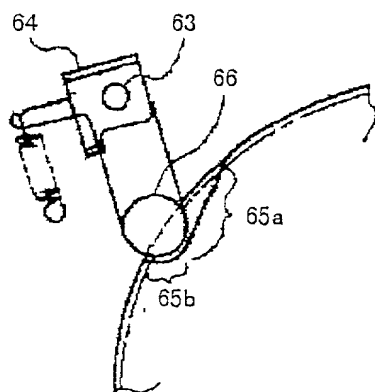


FIG. 6C

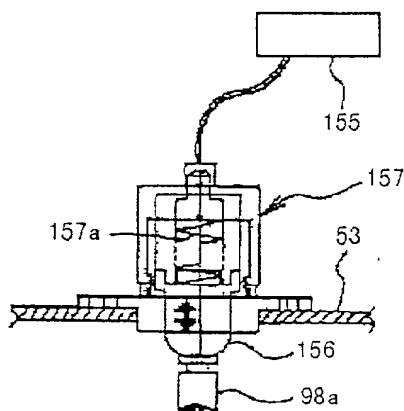


FIG. 7A

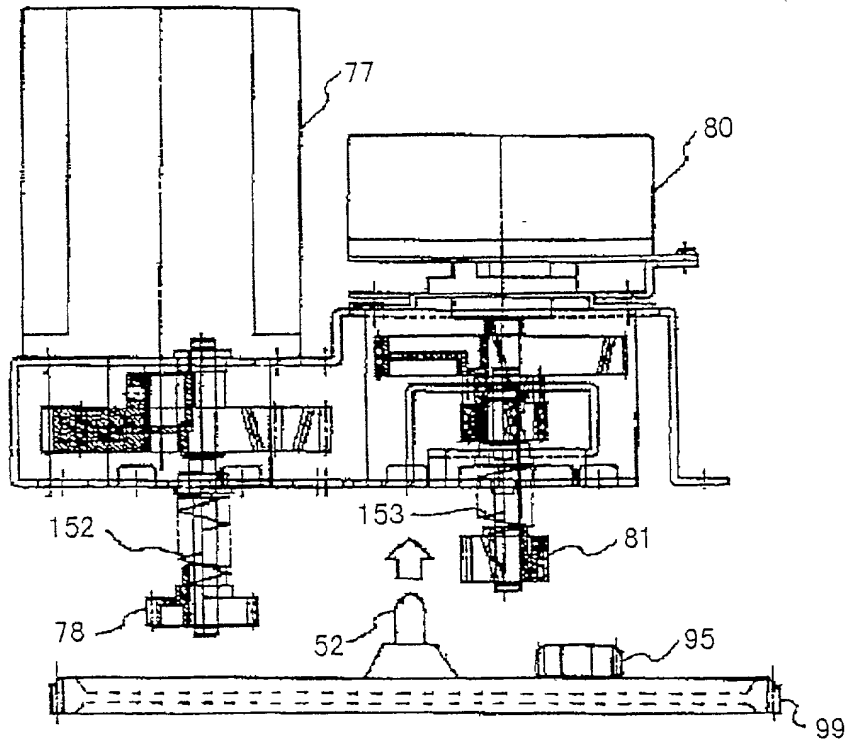


FIG. 7B

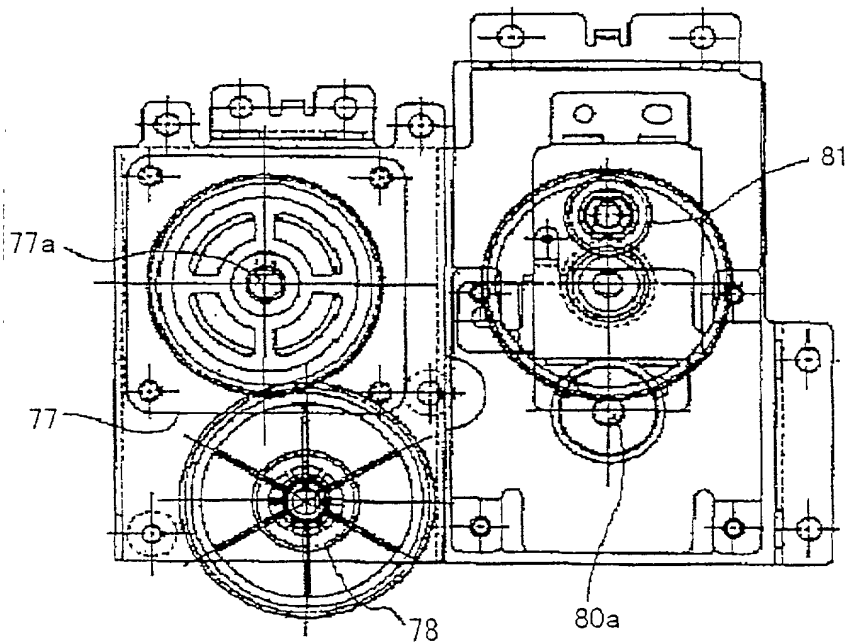


FIG. 8

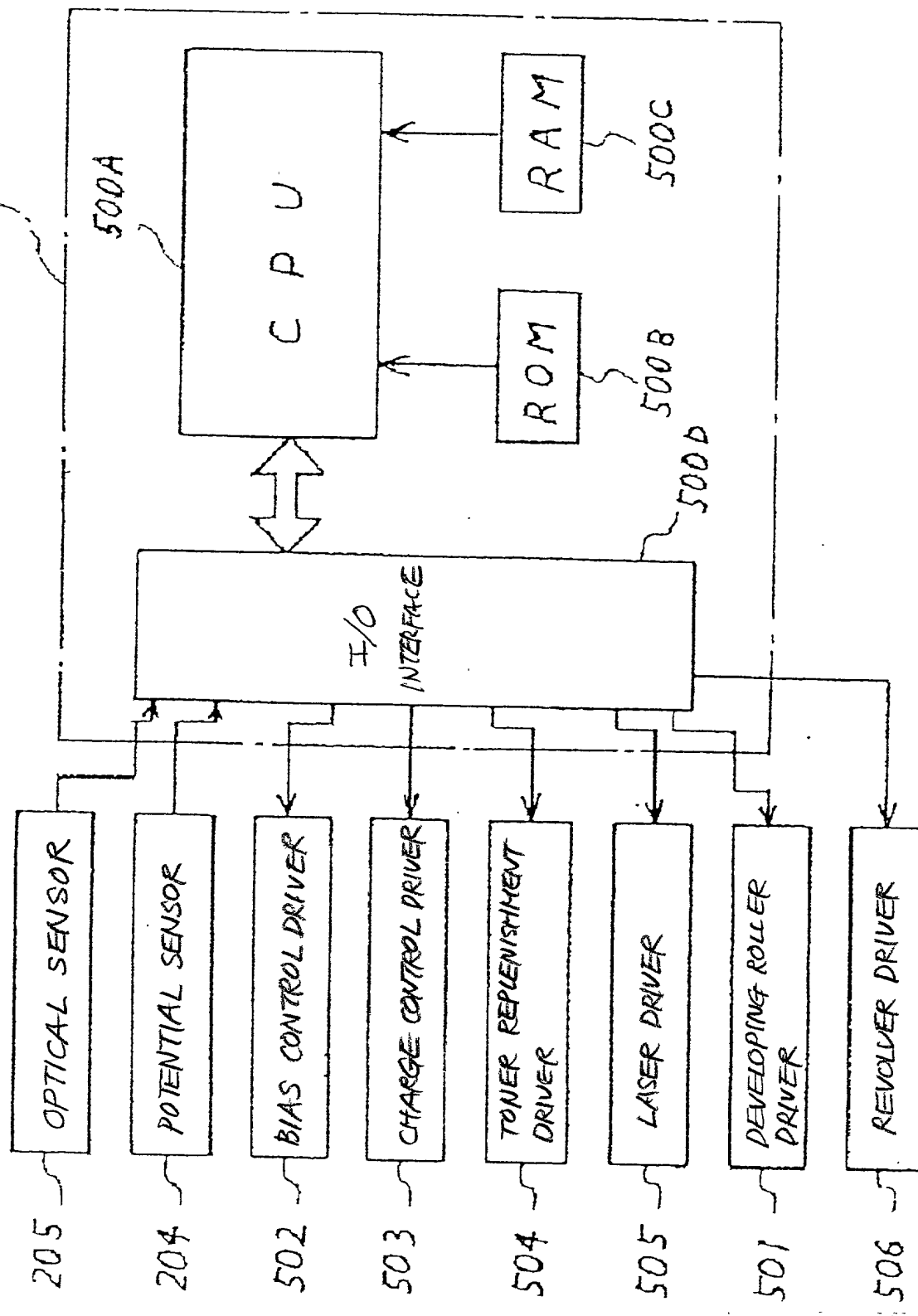


FIG. 9

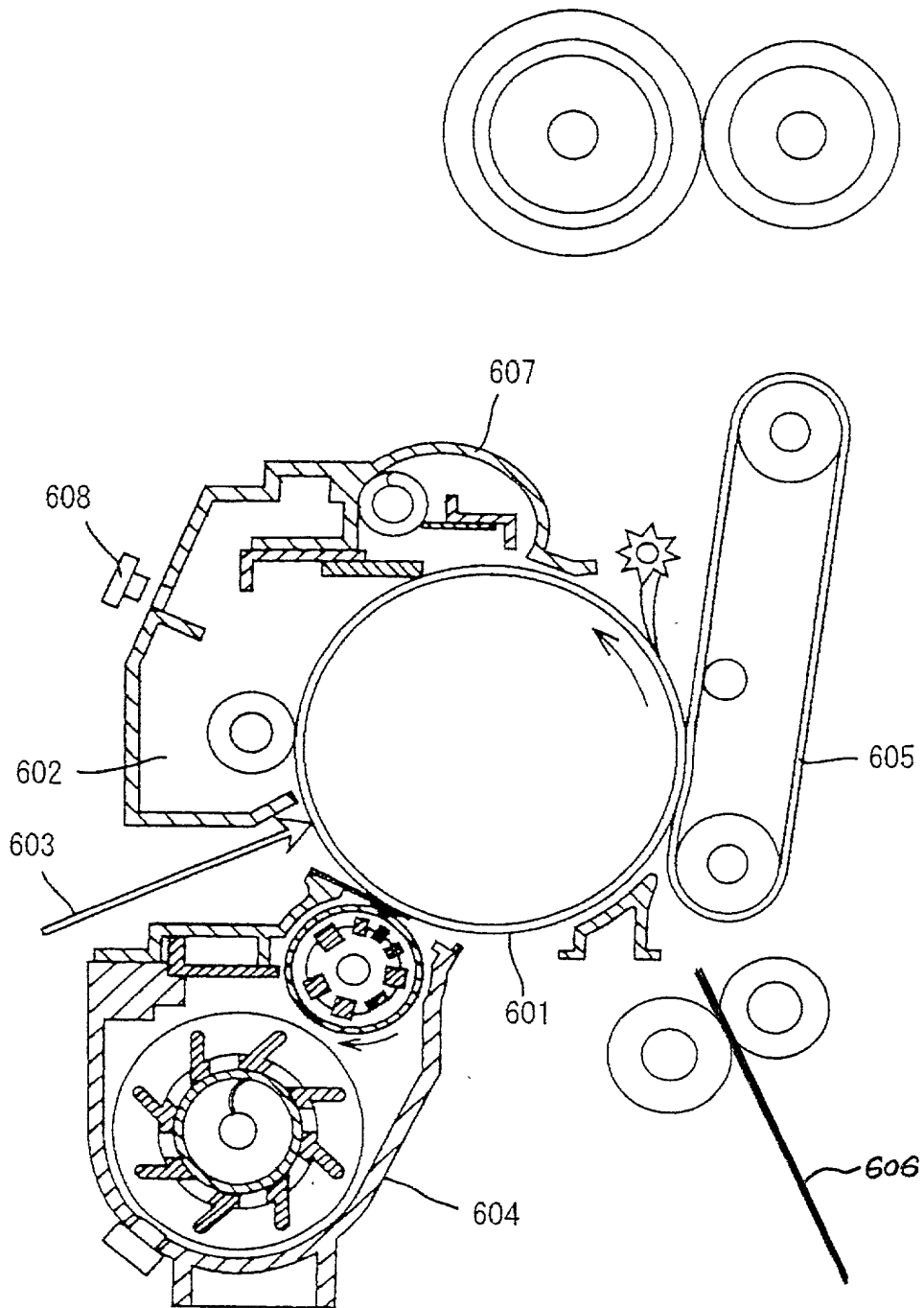


FIG. 10

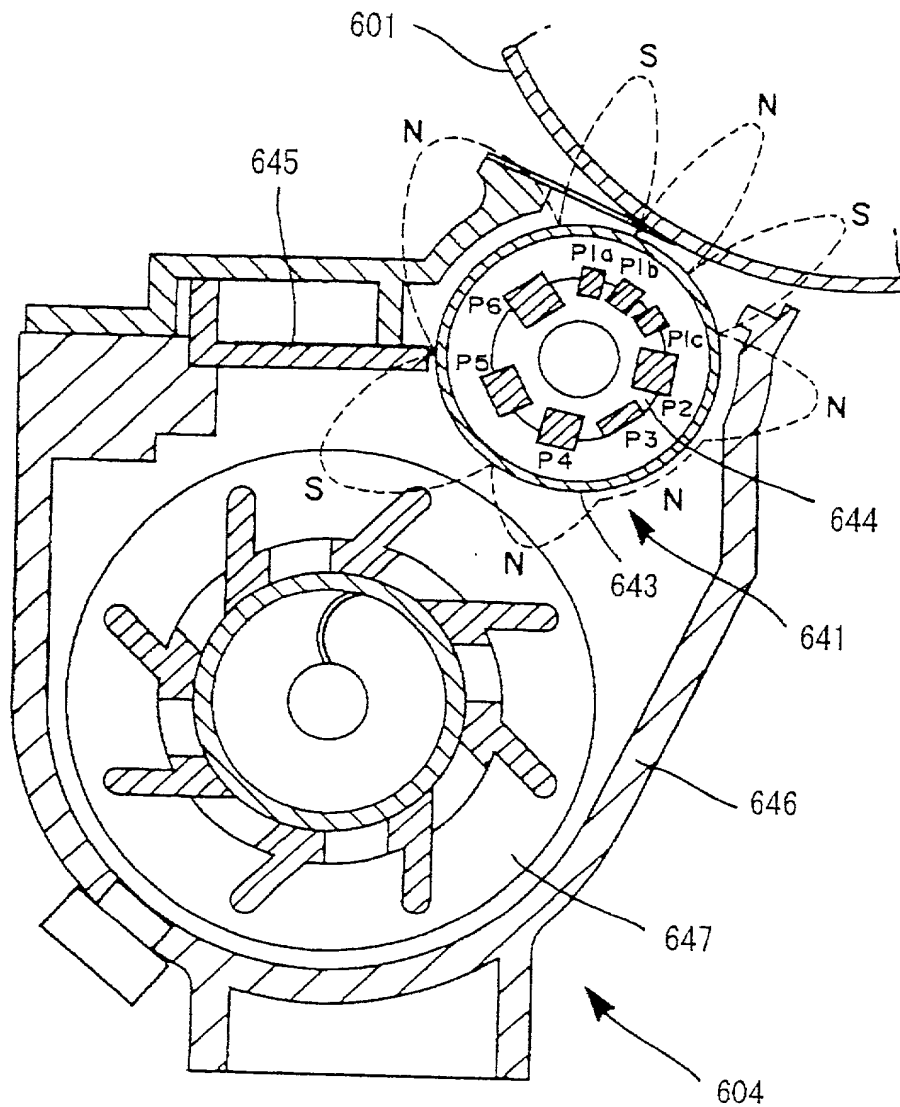


FIG. 11

| No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|------------------------------------|----------------------|------|------|------|------|--------------|------|------|------|------|
| COPIER | MONOCHROMATIC COPIER | | | | | COLOR COPIER | | | | |
| SLEEVE VELOCITY/ DRUM VELOCITY | 2.5 | 2.5 | 2.5 | 2.5 | 1.3 | | | | | |
| DRUM DIAMETER (mm) | 30 | 30 | 60 | 60 | 90 | | | | | |
| SLEEVE DIAMETER (mm) | 16 | 16 | 20 | 20 | 30 | | | | | |
| DEVELOPMENT GAP (mm) | 0.4 | | | | 0.4 | | | | 0.35 | |
| NIP (mm) | 4 | 1.5 | 4 | 2 | 7 | 4 | 4 | 4 | 1.5 | 1.5 |
| DISTANCE AT NIP BOUNDARY (mm) | 0.79 | 0.45 | 0.67 | 0.47 | 0.95 | 0.95 | 0.58 | 0.58 | 0.42 | 0.42 |
| BOUNDARY DISTANCE/ NIP DISTANCE | 1.67 | 1.17 | 2.38 | 1.45 | 1.97 | 1.97 | 1.13 | 1.13 | 1.2 | 1.2 |
| BIAS | DC -600V ONLY | | | | *1 | *2 | *1 | *2 | *1 | *2 |
| OMISSION RANK | 2.5 | 4.5 | 2.5 | 4.5 | 3 | 3 | 4.5 | 4.5 | 4.5 | 4.5 |
| GRANULARITY RANK | 2 | 2 | 2 | 2 | 3 | 2 | 4.5 | 2 | 4.5 | 2 |

*1 DC+AC, f 5kHz, DUTY 25%, OFFSET VOLTAGE -700V, PEAK VOLTAGE 800V
 *2 DC -500V ONLY

FIG. 12

| FREQUENCY (kHz) | GRANULARITY RANK |
|-----------------|---------------------|
| 0 | 2 |
| 0.5 | 3 |
| 1 | 3.75 |
| 2 | 4 |
| 2.25 | 4 |
| 2.5 | 4.25 |
| 3 | 4.5 |
| 3.5 | 4.5 |
| 4 | 4.75 |
| 4.5 | 4.5 |
| 5 | 4.5 |
| 5.5 | 4.5 |
| 6 | 4.5 |
| 7 | 4.5 |
| 9 | 4.5 |

FIG. 13

| DUTY (%) | GRANULARITY RANK |
|----------|---------------------|
| 10 | 4.75 |
| 15 | 4.75 |
| 20 | 4.75 |
| 25 | 4.75 |
| 30 | 4.75 |
| 35 | 4.75 |
| 40 | 4.75 |
| 45 | 4.25 |
| 50 | 4 |
| 60 | 3.5 |

FIG. 14

| Gp [mm] | Gd [mm] | Gp/Gd | BIAS: DC-500V | | BIAS: AC | |
|---------|---------|----------|---------------------|------------------|---------------------|------------------|
| | | | GRANULARITY RANK | OMISSION RANK | GRANULARITY RANK | OMISSION RANK |
| 0.35 | 0.75 | 0.466667 | 1.5 | 4 | 4.5 | 4 |
| 0.43 | 0.83 | 0.518072 | 1.5 | 4 | 4.5 | 4 |
| 0.35 | 0.63 | 0.555556 | 1.5 | 4 | 4 | 4 |
| 0.43 | 0.75 | 0.573333 | 1.5 | 4 | 4 | 4 |
| 0.5 | 0.83 | 0.60241 | 1.5 | 4 | 4 | 4 |
| 0.5 | 0.75 | 0.666667 | 1.5 | 4 | 4 | 4 |
| 0.35 | 0.52 | 0.673077 | 1 | 4 | 3.5 | 4 |
| 0.43 | 0.63 | 0.68254 | 1 | 4 | 3.5 | 4 |
| 0.43 | 0.52 | 0.826923 | 1 | 4 | 3 | 4 |
| 0.6 | 0.52 | 1.153846 | 1 | 4 | 2 | 4 |

FIG. 15

| Gp [mm] | Gd [mm] | Gp / Gd | BIAS: DC-500V | | BIAS: AC | f 4.5 kHz Vpp 800V DUTY 50% |
|---------|---------|----------|---------------------|------------------|-------------|-----------------------------------|
| | | | GRANULARITY RANK | OMISSION RANK | | |
| 0.35 | 0.75 | 0.466667 | 1 | 2 | 3.5 | 2 |
| 0.35 | 0.64 | 0.546875 | 1 | 2 | 3.5 | 2 |
| 0.4 | 0.64 | 0.625 | 1 | 2 | 3.5 | 2 |
| 0.45 | 0.56 | 0.803571 | 1 | 2 | 3.5 | 2 |
| 0.5 | 0.56 | 0.892857 | 1 | 2.5 | 3.5 | 2.5 |
| 0.6 | 0.85 | 0.705882 | 1 | 2.75 | 2 | 2.75 |
| 0.6 | 0.91 | 0.659341 | 1 | 2.75 | 2 | 2.75 |

FIG. 16

| Gp [mm] | ρ [g/cm ³] | Gp / ρ | BIAS: DC-500V | | BIAS: AC | |
|---------|-----------------------------|-------------|---------------------|------------------|---------------------|------------------|
| | | | GRANULARITY RANK | OMISSION RANK | GRANULARITY RANK | OMISSION RANK |
| 0.35 | 0.065 | 5.384615 | 1.5 | 4 | 4.5 | 4 |
| 0.43 | 0.08 | 5.375 | 1.5 | 4 | 4.5 | 4 |
| 0.35 | 0.05 | 7 | 1.5 | 4 | 4 | 4 |
| 0.43 | 0.065 | 6.615385 | 1.5 | 4 | 4 | 4 |
| 0.5 | 0.08 | 6.25 | 1.5 | 4 | 4 | 4 |
| 0.5 | 0.065 | 7.692308 | 1.5 | 4 | 4 | 4 |
| 0.35 | 0.035 | 10 | 1 | 4 | 3.5 | 4 |
| 0.43 | 0.05 | 8.6 | 1 | 4 | 3.5 | 4 |
| 0.43 | 0.036 | 11.94444 | 1 | 4 | 3 | 4 |
| 0.6 | 0.035 | 17.14286 | 1 | 4 | 2 | 4 |

FIG. 17

| Gp [mm] | ρ [g/cm ³] | Gp / ρ | BIAS: DC -500V | | BIAS: AC | f 4.5 kHz Vpp 800V DUTY 50% |
|---------|-----------------------------|-------------|---------------------|------------------|-------------|-----------------------------------|
| | | | GRANULARITY RANK | EMISSION RANK | | |
| 0.35 | 0.065 | 5.384615 | 1 | 2 | 3.5 | 2 |
| 0.35 | 0.05 | 7 | 1 | 2 | 3.5 | 2 |
| 0.4 | 0.05 | 8 | 1 | 2 | 3.5 | 2 |
| 0.45 | 0.04 | 11.25 | 1 | 2 | 3.5 | 2 |
| 0.5 | 0.04 | 12.5 | 1 | 2.5 | 3.5 | 2.5 |
| 0.6 | 0.076 | 7.894737 | 1 | 2.75 | 2 | 2.75 |
| 0.6 | 0.085 | 7.058824 | 1 | 2.75 | 2 | 2.75 |